

**EAST Search History****EAST Search History (Prior Art)**

| Ref # | Hits   | Search Query                                                                                                                                                                                                          | DBs                                                       | Default Operator | Plurals | Time Stamp          |
|-------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------|---------|---------------------|
| L1    | 42     | (migrat\$4) same<br>(agent or module\$ or daemon) same<br>(node) same<br>(network) same<br>(monitor\$3 or track \$3 or collect\$3 or capture\$3 collat\$3 or gather\$3)                                               | US_PGPUB;<br>USPAT; USOCR;<br>EPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/07/27<br>17:14 |
| L2    | 28     | (migrat\$4) same<br>(agent or module\$ or daemon) same<br>(node) same<br>(network) same<br>(monitor\$3 or track \$3 or collect\$3 or capture\$3 collat\$3 or gather\$3) and<br>(recover\$4 or correct\$3 or heal \$3) | US_PGPUB;<br>USPAT; USOCR;<br>EPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/07/27<br>17:22 |
| L3    | 163037 | (network or WAN or LAN or node) near5 (manag\$4 or monitor\$4 or analy \$4 or recover\$3)                                                                                                                             | US_PGPUB;<br>USPAT; EPO                                   | OR               | ON      | 2009/07/27<br>18:17 |
| L4    | 63551  | (network or WAN or LAN or node) near5 (manag\$4 or monitor\$4 or analy \$4 or recover\$3) near5 (module or device or system)                                                                                          | US_PGPUB;<br>USPAT; EPO                                   | OR               | ON      | 2009/07/27<br>18:17 |
| L5    | 59837  | (manag\$4 or control\$4 or administer\$4) near5 (node or junction or (end adj point))                                                                                                                                 | US_PGPUB;<br>USPAT; EPO                                   | OR               | ON      | 2009/07/27<br>18:17 |

|    |      |                                                                                                                                                                                                                              |                         |    |    |                     |
|----|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----|----|---------------------|
| L6 | 3213 | (manag\$4 or<br>controlls\$4 or<br>administer\$4)<br>near5 (node or<br>junction or (end adj<br>point)) near5<br>(monitor\$4 or<br>check or analyz\$3<br>or status)                                                           | US-PGPUB;<br>USPAT; EPO | OR | ON | 2009/07/27<br>18:17 |
| L7 | 36   | (manag\$4 or<br>controlls\$4 or<br>administer\$4)<br>near5 (node or<br>junction or (end adj<br>point)) near5<br>((monitor\$4 or<br>check or analyz\$3<br>or status) same<br>(ping or heartbeat<br>or (heart adj<br>beat)))   | US-PGPUB;<br>USPAT; EPO | OR | ON | 2009/07/27<br>18:17 |
| L8 | 36   | ((manag\$4 or<br>controlls\$4 or<br>administer\$4)<br>near5 (node or<br>junction or (end adj<br>point))) near5<br>((monitor\$4 or<br>check or analyz\$3<br>or status) same<br>(ping or heartbeat<br>or (heart adj<br>beat))) | US-PGPUB;<br>USPAT; EPO | OR | ON | 2009/07/27<br>18:17 |
| L9 | 181  | ((manag\$4 or<br>controlls\$4 or<br>administer\$4)<br>near5 (node or<br>junction or (end adj<br>point))) same<br>((monitor\$4 or<br>check or analyz\$3<br>or status) same<br>(ping or heartbeat<br>or (heart adj<br>beat)))  | US-PGPUB;<br>USPAT; EPO | OR | ON | 2009/07/27<br>18:17 |

|     |      |                                                                                                                                                                                                                                                                   |                      |    |    |                  |
|-----|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----|----|------------------|
| L10 | 19   | ((manag\$4 or control\$4 or administer\$4) near5 (node or junction or (end adj point)) same ((monitor\$4 or check or analyz\$3 or status) same (ping or heartbeat or (heart adj beat))) same (restor \$3 or up or reinstat \$3 or reestablish\$3))                | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L11 | 6112 | ((manag\$4 or control\$4 or administer\$4) near8 (node or device or junction or (end adj point)) same (recover or reinitialize\$3 or restart or restore))                                                                                                         | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L12 | 703  | ((manag\$4 or control\$4 or administer\$4) near8 (node or device or junction or (end adj point)) same (recover or reinitialize\$3 or restart or restore) same (failure or downtime or (out adj of adj service)))                                                  | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L13 | 7    | ((manag\$4 or control\$4 or administer\$4) near8 (node or device or junction or (end adj point)) same (recover or reinitialize\$3 or restart or restore) same ((failure or downtime or (out adj of adj service))) near10 (ping or heartbeat or (heart adj beat))) | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L14 | 1    | "6,072,857".pn.                                                                                                                                                                                                                                                   | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |

|     |         |                                                                                                                                                                                                                                                              |                         |    |    |                     |
|-----|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----|----|---------------------|
| L15 | 2       | "0049845"                                                                                                                                                                                                                                                    | US-PGPUB;<br>USPAT; EPO | OR | ON | 2009/07/27<br>18:17 |
| L16 | 0       | "0049845A1"                                                                                                                                                                                                                                                  | US-PGPUB;<br>USPAT; EPO | OR | ON | 2009/07/27<br>18:17 |
| L17 | 6915469 | maintaining membership in high availability systems .ti.                                                                                                                                                                                                     | US-PGPUB;<br>USPAT; EPO | OR | ON | 2009/07/27<br>18:17 |
| L18 | 0       | "maintaining membership in high availability systems".ti.                                                                                                                                                                                                    | US-PGPUB;<br>USPAT; EPO | OR | ON | 2009/07/27<br>18:17 |
| L19 | 319     | sreenivasan.in.                                                                                                                                                                                                                                              | US-PGPUB;<br>USPAT; EPO | OR | ON | 2009/07/27<br>18:17 |
| L20 | 73      | sreenivasan.in. and maintaining                                                                                                                                                                                                                              | US-PGPUB;<br>USPAT; EPO | OR | ON | 2009/07/27<br>18:17 |
| L21 | 1       | "recovery modula"                                                                                                                                                                                                                                            | US-PGPUB;<br>USPAT; EPO | OR | ON | 2009/07/27<br>18:17 |
| L22 | 1632    | "recovery module"                                                                                                                                                                                                                                            | US-PGPUB;<br>USPAT; EPO | OR | ON | 2009/07/27<br>18:17 |
| L23 | 150     | "recovery module" same rout\$4                                                                                                                                                                                                                               | US-PGPUB;<br>USPAT; EPO | OR | ON | 2009/07/27<br>18:17 |
| L24 | 5       | "recovery module" same rout\$4 same node                                                                                                                                                                                                                     | US-PGPUB;<br>USPAT; EPO | OR | ON | 2009/07/27<br>18:17 |
| L25 | 125     | 709/223.ccls. and ((manag\$4 or controlls\$4 or administer\$4) near8 (node or device or junction or (end adj point))) same (recover or reinitialize\$3 or restart or restore)                                                                                | US-PGPUB;<br>USPAT; EPO | OR | ON | 2009/07/27<br>18:17 |
| L26 | 18      | 709/223.ccls. and ((manag\$4 or controlls\$4 or administer\$4) near8 (node or device or junction or (end adj point))) same (recover or reinitialize\$3 or restart or restore) same (failed or down\$2) near3 (node or device or junction or (end adj point)) | US-PGPUB;<br>USPAT; EPO | OR | ON | 2009/07/27<br>18:17 |

|     |      |                                                                                                                                                                                                                                           |                      |    |    |                  |
|-----|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----|----|------------------|
| L27 | 13   | 709/223.ccls. and ((manag\$4 or controls\$4 or administer\$4) near8 (node or device or junction or (end adj point))) same (recover or reinitialize\$3 or restart or restore) same (migrate\$3 or switch\$3)                               | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L28 | 8    | 709/223.ccls. and ((manag\$4 or controls\$4 or administer\$4) near8 (node or device or junction or (end adj point))) same (recover or reinitialize\$3 or restart or restore) same (migrate\$3 or transfer\$3)                             | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L29 | 195  | ((manag\$4 or controls\$4 or administer\$4) near8 (node or device or junction or (end adj point))) same (recover or reinitialize\$3 or restart or restore) same (failed or down\$2) near3 (node or device or junction or (end adj point)) | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L30 | 4768 | (manag\$4 or controls\$4 or administer\$4) near4 (monitor\$3) near3 (status)                                                                                                                                                              | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L31 | 4693 | (monitor\$3) near3 (status) near2 (node or device)                                                                                                                                                                                        | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L32 | 420  | (monitor\$3) near3 (status) near2 (node or device) same (fail\$2 or down)                                                                                                                                                                 | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |

|     |     |                                                                                                                                                   |                      |    |    |                  |
|-----|-----|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----|----|------------------|
| L33 | 3   | (monitor\$3) near3 (status) near2 (node or device) same (fail\$2 or down) near5 (recover\$3 or failover)                                          | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L34 | 25  | (monitor\$3) near3 (status) near2 (node or device) same (fail\$2 or down) same (recover\$3 or failover)                                           | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L35 | 48  | (monitor\$3) near3 (status) near9 (node or device) same (fail\$2 or down) same (recover\$3 or failover)                                           | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L36 | 98  | (monitor\$3 or track \$3) near9 (status) near9 (node or device) same (fail \$2 or down) same (recover\$3 or failover)                             | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L37 | 140 | (monitor\$3 or track \$3) near9 (status) near9 (node or device or network) same (fail\$2 or down) same (recover\$3 or failover)                   | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L38 | 16  | 709/223.ccls. and (monitor\$3 or track \$3) near9 (status) near9 (node or device or network) same (fail\$2 or down) same (recover\$3 or failover) | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L39 | 51  | 709/223.ccls. and (network or WAN or LAN) same (manag\$6) same (status) same (recover\$3)                                                         | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |

|     |      |                                                                                                                                                         |                      |    |    |                  |
|-----|------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----|----|------------------|
| L40 | 818  | (device or system or switch or router) near5 (recover\$3) near (module\$1 or agent\$1)                                                                  | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L41 | 1817 | (device or system or switch or router) near5 (recover\$3) near5 (module\$1 or agent\$1)                                                                 | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L42 | 19   | (device or system or switch or router or node) near5 (recover\$3) near5 (module\$1 or agent \$1) same (migrat \$3)                                      | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L43 | 126  | (device or system or switch or router or node) near5 (recover\$3) near5 (module\$1 or agent \$1) same (failed or down\$2)                               | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L44 | 99   | (device or system or switch or router or node) near5 (recover\$3) near5 (module\$1 or agent \$1) same (failed or down\$2) and single                    | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L45 | 115  | (device or system or switch or router or node) near5 (recover\$3) near5 (module\$1 or agent \$1) same (failed or down\$2) and single or "one at a time" | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L46 | 16   | "note to node" near5 (recover\$3) near5 (module\$1 or agent\$1) same (failed or down\$2) and single or "one at a time"                                  | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |

|     |       |                                                                                                                                                                                                |                           |    |    |                     |
|-----|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----|----|---------------------|
| L47 | 16    | "note to node"<br>near5 (recover\$3 or<br>failover) near5<br>(module\$1 or agent<br>\$1) same (failed or<br>down\$2) and single<br>or "one at a time"                                          | US-PGPUB;<br>USPAT; EPO   | OR | ON | 2009/07/27<br>18:17 |
| L48 | 21717 | (manag\$6) same<br>(nodes) near5<br>(network or WAN<br>or LAN)                                                                                                                                 | US-PGPUB;<br>USPAT; EPO   | OR | ON | 2009/07/27<br>18:17 |
| L49 | 77    | (manag\$6) same<br>(nodes) near5<br>(network or WAN<br>or LAN) same<br>(agent or prob\$3)<br>same (recover\$3 or<br>restor\$3)                                                                 | US-PGPUB;<br>USPAT; EPO   | OR | ON | 2009/07/27<br>18:17 |
| L50 | 58    | ("5751964").URPN.                                                                                                                                                                              | USPAT                     | OR | ON | 2009/07/27<br>18:17 |
| L51 | 8     | L50 and (restor\$3<br>or rollback)                                                                                                                                                             | USPAT                     | OR | ON | 2009/07/27<br>18:17 |
| L52 | 0     | (agent or probe)<br>near5 (migrat\$3 or<br>transfer\$4) same<br>("node to node")                                                                                                               | USPAT                     | OR | ON | 2009/07/27<br>18:17 |
| L53 | 116   | (agent or probe)<br>near5 (migrat\$3 or<br>transfer\$4) near2<br>(node)                                                                                                                        | USPAT                     | OR | ON | 2009/07/27<br>18:17 |
| L54 | 19    | (agent or probe)<br>near5 (migrat\$3)<br>near2 (node)                                                                                                                                          | USPAT                     | OR | ON | 2009/07/27<br>18:17 |
| L55 | 4     | (agent or probe)<br>near5 (migrat\$3)<br>near2 (node) with<br>(fail\$2 or fault or<br>error or recover\$3)                                                                                     | USPAT                     | OR | ON | 2009/07/27<br>18:17 |
| L56 | 24    | ("5113398"  <br>"5157667"  <br>"5321813"  <br>"5337360"  <br>"5355313"  <br>"5367635"  <br>"5572528"  <br>"5596712"  <br>"5623628"  <br>"5655081"  <br>"5692119"  <br>"5706422"  <br>"5815652" | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2009/07/27<br>18:17 |

|     |        |                                                                                                                                                                                                                                                                                                                    |                        |    |    |                  |
|-----|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----|----|------------------|
|     |        | "5838918" "5872931" "5887171" "5901286" "5913037" "5987135" "6009456" "6012152" "6049819" "6055562" "6088727").PN.                                                                                                                                                                                                 |                        |    |    |                  |
| L57 | 3      | L56 and (successive)                                                                                                                                                                                                                                                                                               | US-PGPUB; USPAT; USOCR | OR | ON | 2009/07/27 18:17 |
| L58 | 104831 | "54" and statist\$4                                                                                                                                                                                                                                                                                                | US-PGPUB; USPAT; USOCR | OR | ON | 2009/07/27 18:17 |
| L59 | 4      | ("5113398"   "5157667"   "5321813"   "5337360"   "5355313"   "5367635"   "5572528"   "5596712"   "5623628"   "5655081"   "5692119"   "5706422"   "5815652"   "5838918"   "5872931"   "5887171"   "5901286"   "5913037"   "5987135"   "6009456"   "6012152"   "6049819"   "6055562"   "6088727").PN. and statist\$4 | US-PGPUB; USPAT; USOCR | OR | ON | 2009/07/27 18:17 |
| L60 | 7      | 709/223.ccls. and (manag\$6) same (nodes) near5 (network or WAN or LAN) same (agent or prob\$3) same (recover\$3 or restor\$3)                                                                                                                                                                                     | US-PGPUB; USPAT; EPO   | OR | ON | 2009/07/27 18:17 |

|     |       |                                                                                                                                           |                      |    |    |                  |
|-----|-------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----|----|------------------|
| L61 | 5     | 709/223.ccls. and (manag\$6) same (nodes) near5 (network or WAN or LAN) same (agent or probes) same (recover\$3 or restor\$3)             | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L62 | 40    | (agent\$1 or probe \$1 or module\$1) with ( migrat\$4 or mobile) with (status or detect\$3) with (fault or recover\$2)                    | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L63 | 12190 | (agent\$1 or probe \$1 or module\$1) with ( migrat\$4 or mobile) with (manag\$5 or control \$4)                                           | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L64 | 128   | 709/223.ccls. and (agent\$1 or probe \$1 or module\$1) with ( migrat\$4 or mobile) with (manag\$5 or control \$4)                         | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L65 | 3     | 709/223.ccls. and (agent\$1 or probe \$1 or module\$1) with ( migrat\$4 or mobile) with (manag\$5 or control \$4) with (fault or down\$2) | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L66 | 39    | (heartbeat) with (protocol) with (status)                                                                                                 | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L67 | 262   | (messaging) with (protocol) with (status)                                                                                                 | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L68 | 90    | (messaging) with (protocol) with (status) with (node or device)                                                                           | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L69 | 8     | (messaging) with (protocol) with (status) with (node or device) with (agent or module)                                                    | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |

|     |     |                                                                                                            |                      |    |    |                  |
|-----|-----|------------------------------------------------------------------------------------------------------------|----------------------|----|----|------------------|
| L70 | 45  | (messaging) near4 (protocol) with (status) with (node or device)                                           | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L71 | 75  | (messaging) near4 (protocol) with (status or monitor \$3) with (node or device)                            | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L72 | 478 | (ICMP or ping) with (status or monitor \$3) with (node or device)                                          | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L73 | 18  | (ICMP or ping) with (status) with (node or device) with (probe or agent)                                   | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L74 | 47  | (ICMP or ping) with (status) with (probe or agent)                                                         | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L75 | 625 | (ICMP or ping) with (status) and (probe or agent)                                                          | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L76 | 99  | (ICMP or ping) with (status) same (probe or agent)                                                         | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L77 | 8   | (ICMP or ping) with (status) with (network) with (device or node or entit\$3) same (probe or agent)        | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L78 | 8   | (ICMP or ping or ARP) with (status) with (network) with (device or node or entit\$3) same (probe or agent) | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |
| L79 | 245 | (ICMP or ping or ARP) with (network) with (device or node or entit\$3) same (probe or agent)               | US-PGPUB; USPAT; EPO | OR | ON | 2009/07/27 18:17 |

|     |     |                                                                                                                |                                               |    |    |                  |
|-----|-----|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----|----|------------------|
| L80 | 12  | (ICMP or ping or ARP) with (network) with (device or node or entity\$3) same (probe or agent) with status      | US-PGPUB; USPAT; EPO                          | OR | ON | 2009/07/27 18:17 |
| L81 | 127 | (ICMP or ping or ARP) with (network) with (device or node or entity\$3) same (probe or agent) and status       | US-PGPUB; USPAT; EPO                          | OR | ON | 2009/07/27 18:17 |
| L82 | 242 | (heartbeat) near3 (protocol)                                                                                   | US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 18:17 |
| L83 | 37  | (heartbeat) near3 (protocol) same (status)                                                                     | US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 18:17 |
| L84 | 38  | (agent) with (periodic\$3) with (status) with (node or server or client or entity)                             | US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 18:17 |
| L85 | 76  | (agent) with (periodic\$3) with (monitor\$3 or status or track\$3) with (node or server or client or entity)   | US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 18:17 |
| L86 | 8   | (agent) near4 (periodic\$3) near3 (monitor\$3 or status or track\$3) with (node or server or client or entity) | US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 18:17 |
| L87 | 242 | (heartbeat) near3 (protocol)                                                                                   | US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 18:17 |

|     |     |                                                                                               |                                               |    |    |                  |
|-----|-----|-----------------------------------------------------------------------------------------------|-----------------------------------------------|----|----|------------------|
| L88 | 37  | (heartbeat) near3 (protocol) same (status)                                                    | US_PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 18:17 |
| L89 | 100 | (heartbeat) adj (protocol)                                                                    | US_PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 18:17 |
| L90 | 73  | (heartbeat) adj (protocol) and status                                                         | US_PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 18:17 |
| L91 | 14  | (heartbeat) adj (protocol) same status                                                        | US_PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 18:17 |
| L92 | 24  | (heartbeat) near5 (protocol) same status same (agent or module)                               | US_PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 18:17 |
| L93 | 40  | (heartbeat) near5 (protocol) same status and (agent or module)                                | US_PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 18:17 |
| L94 | 187 | (heartbeat) near5 (protocol or message) same status same (agent or module)                    | US_PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 18:17 |
| L95 | 165 | (heartbeat) near5 (message) same status same (agent or module)                                | US_PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 18:17 |
| L96 | 43  | (heartbeat) near5 (message) same status same (agent or module) same (node or device)          | US_PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 18:17 |
| L97 | 63  | (heartbeat or alive) near5 (message) same status same (agent or module) same (node or device) | US_PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 18:17 |

|    |       |                                                                                                                                                                                             |                      |    |    |                  |
|----|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----|----|------------------|
| S1 | 62980 | (network or WAN or LAN or node) near5 (manag\$4 or monitor\$4 or analy \$4 or recover\$3)                                                                                                   | US-PGPUB; USPAT; EPO | OR | ON | 2004/09/09 17:15 |
| S2 | 22793 | (network or WAN or LAN or node) near5 (manag\$4 or monitor\$4 or analy \$4 or recover\$3) near5 (module or device or system)                                                                | US-PGPUB; USPAT; EPO | OR | ON | 2004/09/10 11:01 |
| S3 | 27506 | (manag\$4 or controlls\$4 or administer\$4) near5 (node or junction or (end adj point))                                                                                                     | US-PGPUB; USPAT; EPO | OR | ON | 2006/06/19 10:13 |
| S4 | 1399  | (manag\$4 or controlls\$4 or administer\$4) near5 (node or junction or (end adj point)) near5 (monitor\$4 or check or analyz\$3 or status)                                                  | US-PGPUB; USPAT; EPO | OR | ON | 2004/09/10 11:08 |
| S5 | 12    | (manag\$4 or controlls\$4 or administer\$4) near5 (node or junction or (end adj point)) near5 ((monitor\$4 or check or analyz\$3 or status) same (ping or heartbeat or (heart adj beat)))   | US-PGPUB; USPAT; EPO | OR | ON | 2004/09/10 11:17 |
| S6 | 12    | ((manag\$4 or controlls\$4 or administer\$4) near5 (node or junction or (end adj point))) near5 ((monitor\$4 or check or analyz\$3 or status) same (ping or heartbeat or (heart adj beat))) | US-PGPUB; USPAT; EPO | OR | ON | 2004/09/10 14:47 |

|     |      |                                                                                                                                                                                                                                                   |                      |    |    |                  |
|-----|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----|----|------------------|
| S7  | 50   | ((manag\$4 or controll\$4 or administer\$4) near5 (node or junction or (end adj point))) same ((monitor\$4 or check or analyz\$3 or status) same (ping or heartbeat or (heart adj beat)))                                                         | US-PGPUB; USPAT; EPO | OR | ON | 2004/09/10 11:18 |
| S8  | 6    | ((manag\$4 or controll\$4 or administer\$4) near5 (node or junction or (end adj point))) same ((monitor\$4 or check or analyz\$3 or status) same (ping or heartbeat or (heart adj beat))) same (restor\$3 or up or reinstat\$3 or reestablish\$3) | US-PGPUB; USPAT; EPO | OR | ON | 2004/09/10 13:50 |
| S9  | 2732 | ((manag\$4 or controll\$4 or administer\$4) near8 (node or device or junction or (end adj point))) same (recover or reinitialize\$3 or restart or restore)                                                                                        | US-PGPUB; USPAT; EPO | OR | ON | 2006/01/06 22:55 |
| S10 | 308  | ((manag\$4 or controll\$4 or administer\$4) near8 (node or device or junction or (end adj point))) same (recover or reinitialize\$3 or restart or restore) same (failure or downtime or (out adj of adj service))                                 | US-PGPUB; USPAT; EPO | OR | ON | 2004/09/10 14:00 |

|     |         |                                                                                                                                                                                                                                                                    |                      |    |    |                  |
|-----|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----|----|------------------|
| S11 | 2       | ((manag\$4 or controls\$4 or administer\$4) near8 (node or device or junction or (end adj point))) same (recover or reinitialize\$3 or restart or restore) same ((failure or downtime or (out adj of adj service)) near10 (ping or heartbeat or (heart adj beat))) | US-PGPUB; USPAT; EPO | OR | ON | 2004/09/10 14:07 |
| S12 | 1       | "6,072,857".pn.                                                                                                                                                                                                                                                    | US-PGPUB; USPAT; EPO | OR | ON | 2004/09/10 14:11 |
| S13 | 1       | "0049845"                                                                                                                                                                                                                                                          | US-PGPUB; USPAT; EPO | OR | ON | 2004/09/10 14:12 |
| S14 | 0       | "0049845A1"                                                                                                                                                                                                                                                        | US-PGPUB; USPAT; EPO | OR | ON | 2004/09/10 14:12 |
| S15 | 4473373 | maintaining membership in high availability systems .ti.                                                                                                                                                                                                           | US-PGPUB; USPAT; EPO | OR | ON | 2004/09/10 14:13 |
| S16 | 0       | "maintaining membership in high availability systems" .ti.                                                                                                                                                                                                         | US-PGPUB; USPAT; EPO | OR | ON | 2004/09/10 14:14 |
| S17 | 100     | sreenivasan.in.                                                                                                                                                                                                                                                    | US-PGPUB; USPAT; EPO | OR | ON | 2004/09/10 14:16 |
| S18 | 24      | sreenivasan.in. and maintaining                                                                                                                                                                                                                                    | US-PGPUB; USPAT; EPO | OR | ON | 2004/09/10 14:17 |
| S19 | 1       | "recovery modula"                                                                                                                                                                                                                                                  | US-PGPUB; USPAT; EPO | OR | ON | 2004/09/10 14:48 |
| S20 | 547     | "recovery module"                                                                                                                                                                                                                                                  | US-PGPUB; USPAT; EPO | OR | ON | 2004/09/10 14:48 |
| S21 | 44      | "recovery module" same rout\$4                                                                                                                                                                                                                                     | US-PGPUB; USPAT; EPO | OR | ON | 2004/09/10 14:49 |
| S22 | 2       | "recovery module" same rout\$4 same node                                                                                                                                                                                                                           | US-PGPUB; USPAT; EPO | OR | ON | 2004/09/10 14:49 |

|     |    |                                                                                                                                                                                                                                                              |                      |    |    |                  |
|-----|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----|----|------------------|
| S23 | 58 | 709/223.ccls. and ((manag\$4 or controlls\$4 or administer\$4) near8 (node or device or junction or (end adj point))) same (recover or reinitialaze\$3 or restart or restore)                                                                                | US-PGPUB; USPAT; EPO | OR | ON | 2006/01/06 22:59 |
| S24 | 3  | 709/223.ccls. and ((manag\$4 or controlls\$4 or administer\$4) near8 (node or device or junction or (end adj point))) same (recover or reinitialaze\$3 or restart or restore) same (failed or down\$2) near3 (node or device or junction or (end adj point)) | US-PGPUB; USPAT; EPO | OR | ON | 2006/01/07 14:42 |
| S25 | 6  | 709/223.ccls. and ((manag\$4 or controlls\$4 or administer\$4) near8 (node or device or junction or (end adj point))) same (recover or reinitialaze\$3 or restart or restore) same (migrate\$3 or switch\$3)                                                 | US-PGPUB; USPAT; EPO | OR | ON | 2006/01/06 23:00 |
| S26 | 3  | 709/223.ccls. and ((manag\$4 or controlls\$4 or administer\$4) near8 (node or device or junction or (end adj point))) same (recover or reinitialaze\$3 or restart or restore) same (migrate\$3 or transfer\$3)                                               | US-PGPUB; USPAT; EPO | OR | ON | 2006/01/06 23:01 |

|     |      |                                                                                                                                                                                                                                                                                  |                         |    |    |                     |
|-----|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----|----|---------------------|
| S27 | 81   | ((manag\$4 or<br>controll\$4 or<br>administer\$4)<br>near8 (node or<br>device or junction<br>or (end adj point)))<br>same (recover or<br>reinitialize\$3 or<br>restart or restore)<br>same (failed or<br>down\$2) near3<br>(node or device or<br>junction or (end adj<br>point)) | US-PGPUB;<br>USPAT; EPO | OR | ON | 2006/01/07<br>14:49 |
| S28 | 2967 | ((manag\$4 or<br>controll\$4 or<br>administer\$4)<br>near4 (monitor\$3)<br>near3 (status))                                                                                                                                                                                       | US-PGPUB;<br>USPAT; EPO | OR | ON | 2006/01/07<br>14:52 |
| S29 | 2606 | ((monitor\$3) near3<br>(status) near2<br>(node or device))                                                                                                                                                                                                                       | US-PGPUB;<br>USPAT; EPO | OR | ON | 2006/01/07<br>14:53 |
| S30 | 201  | ((monitor\$3) near3<br>(status) near2<br>(node or device)<br>same (fail\$2 or<br>down))                                                                                                                                                                                          | US-PGPUB;<br>USPAT; EPO | OR | ON | 2006/01/07<br>14:54 |
| S31 | 0    | ((monitor\$3) near3<br>(status) near2<br>(node or device)<br>same (fail\$2 or<br>down) near5<br>(recover\$3 or<br>failover))                                                                                                                                                     | US-PGPUB;<br>USPAT; EPO | OR | ON | 2006/01/07<br>14:55 |
| S32 | 10   | ((monitor\$3) near3<br>(status) near2<br>(node or device)<br>same (fail\$2 or<br>down) same<br>(recover\$3 or<br>failover))                                                                                                                                                      | US-PGPUB;<br>USPAT; EPO | OR | ON | 2006/01/07<br>14:57 |
| S33 | 24   | ((monitor\$3) near3<br>(status) near9<br>(node or device)<br>same (fail\$2 or<br>down) same<br>(recover\$3 or<br>failover))                                                                                                                                                      | US-PGPUB;<br>USPAT; EPO | OR | ON | 2006/01/07<br>15:00 |

|     |     |                                                                                                                                                   |                      |    |    |                  |
|-----|-----|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----|----|------------------|
| S34 | 52  | (monitor\$3 or track \$3) near9 (status) near9 (node or device) same (fail \$2 or down) same (recover\$3 or failover)                             | US-PGPUB; USPAT; EPO | OR | ON | 2006/01/07 15:12 |
| S35 | 79  | (monitor\$3 or track \$3) near9 (status) near9 (node or device or network) same (fail\$2 or down) same (recover\$3 or failover)                   | US-PGPUB; USPAT; EPO | OR | ON | 2006/01/07 15:13 |
| S36 | 11  | 709/223.ccls. and (monitor\$3 or track \$3) near9 (status) near9 (node or device or network) same (fail\$2 or down) same (recover\$3 or failover) | US-PGPUB; USPAT; EPO | OR | ON | 2006/01/07 15:20 |
| S37 | 33  | 709/223.ccls. and (network or WAN or LAN) same (manag\$6) same (status) same (recover\$3)                                                         | US-PGPUB; USPAT; EPO | OR | ON | 2006/01/07 15:44 |
| S38 | 400 | (device or system or switch or router) near5 (recover\$3) near (module\$1 or agent\$1)                                                            | US-PGPUB; USPAT; EPO | OR | ON | 2006/01/07 15:47 |
| S39 | 942 | (device or system or switch or router) near5 (recover\$3) near5 (module\$1 or agent\$1)                                                           | US-PGPUB; USPAT; EPO | OR | ON | 2006/01/07 15:47 |
| S40 | 7   | (device or system or switch or router or node) near5 (recover\$3) near5 (module\$1 or agent \$1) same (migrat \$3)                                | US-PGPUB; USPAT; EPO | OR | ON | 2006/01/07 15:50 |

|     |       |                                                                                                                                                         |                      |    |    |                  |
|-----|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----|----|------------------|
| S41 | 61    | (device or system or switch or router or node) near5 (recover\$3) near5 (module\$1 or agent \$1) same (failed or down\$2)                               | US-PGPUB; USPAT; EPO | OR | ON | 2006/01/07 16:03 |
| S42 | 46    | (device or system or switch or router or node) near5 (recover\$3) near5 (module\$1 or agent \$1) same (failed or down\$2) and single                    | US-PGPUB; USPAT; EPO | OR | ON | 2006/01/07 16:03 |
| S43 | 56    | (device or system or switch or router or node) near5 (recover\$3) near5 (module\$1 or agent \$1) same (failed or down\$2) and single or "one at a time" | US-PGPUB; USPAT; EPO | OR | ON | 2006/01/07 16:10 |
| S44 | 10    | "note to node" near5 (recover\$3) near5 (module\$1 or agent\$1) same (failed or down\$2) and single or "one at a time"                                  | US-PGPUB; USPAT; EPO | OR | ON | 2006/01/07 16:56 |
| S45 | 10    | "note to node" near5 (recover\$3 or failover) near5 (module\$1 or agent \$1) same (failed or down\$2) and single or "one at a time"                     | US-PGPUB; USPAT; EPO | OR | ON | 2006/01/07 16:57 |
| S46 | 10902 | (manag\$6) same (nodes) near5 (network or WAN or LAN)                                                                                                   | US-PGPUB; USPAT; EPO | OR | ON | 2006/01/07 17:01 |
| S47 | 29    | (manag\$6) same (nodes) near5 (network or WAN or LAN) same (agent or prob\$3) same (recover\$3 or restor\$3)                                            | US-PGPUB; USPAT; EPO | OR | ON | 2006/06/19 10:12 |
| S48 | 44    | ("5751964").URPN.                                                                                                                                       | USPAT                | OR | ON | 2006/01/07 17:17 |
| S49 | 6     | S48 and (restor\$3 or rollback)                                                                                                                         | USPAT                | OR | ON | 2006/01/07 17:39 |

|     |       |                                                                                                                                                                                                                                                                                                     |                        |    |    |                  |
|-----|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----|----|------------------|
| S50 | 0     | (agent or probe) near5 (migrat\$3 or transfer\$4) same ("node to node")                                                                                                                                                                                                                             | USPAT                  | OR | ON | 2006/01/07 17:40 |
| S51 | 57    | (agent or probe) near5 (migrat\$3 or transfer\$4) near2 (node)                                                                                                                                                                                                                                      | USPAT                  | OR | ON | 2006/01/07 17:40 |
| S52 | 14    | (agent or probe) near5 (migrat\$3) near2 (node)                                                                                                                                                                                                                                                     | USPAT                  | OR | ON | 2006/06/17 20:49 |
| S53 | 4     | (agent or probe) near5 (migrat\$3) near2 (node) with (fail\$2 or fault or error or recover\$3)                                                                                                                                                                                                      | USPAT                  | OR | ON | 2006/06/17 20:50 |
| S54 | 24    | ("5113398"   "5157667"   "5321813"   "5337360"   "5355313"   "5367635"   "5572528"   "5596712"   "5623628"   "5655081"   "5692119"   "5706422"   "5815652"   "5838918"   "5872931"   "5887171"   "5901286"   "5913037"   "5987135"   "6009456"   "6012152"   "6049819"   "6055562"   "6088727").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/06/19 09:21 |
| S55 | 3     | S54 and (successive)                                                                                                                                                                                                                                                                                | US-PGPUB; USPAT; USOCR | OR | ON | 2006/06/17 20:52 |
| S56 | 69556 | "54" and statist\$4                                                                                                                                                                                                                                                                                 | US-PGPUB; USPAT; USOCR | OR | ON | 2006/06/19 09:20 |

|     |      |                                                                                                                                                                                                                                                                                                                    |                        |    |    |                  |
|-----|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----|----|------------------|
| S57 | 4    | ("5113398"   "5157667"   "5321813"   "5337360"   "5355313"   "5367635"   "5572528"   "5596712"   "5623628"   "5655081"   "5692119"   "5706422"   "5815652"   "5838918"   "5872931"   "5887171"   "5901286"   "5913037"   "5987135"   "6009456"   "6012152"   "6049819"   "6055562"   "6088727").PN. and statist\$4 | US-PGPUB; USPAT; USOCR | OR | ON | 2006/06/19 09:21 |
| S58 | 2    | 709/223.ccls. and (manag\$6) same (nodes) near5 (network or WAN or LAN) same (agent or prob\$3) same (recover\$3 or restor\$3)                                                                                                                                                                                     | US-PGPUB; USPAT; EPO   | OR | ON | 2006/06/19 10:13 |
| S59 | 1    | 709/223.ccls. and (manag\$6) same (nodes) near5 (network or WAN or LAN) same (agent or probes) same (recover\$3 or restor\$3)                                                                                                                                                                                      | US-PGPUB; USPAT; EPO   | OR | ON | 2006/06/19 10:13 |
| S60 | 26   | (agent\$1 or probe \$1 or module\$1) with ( migrat\$4 or mobile) with (status or detect\$3) with (fault or recover\$2)                                                                                                                                                                                             | US-PGPUB; USPAT; EPO   | OR | ON | 2006/06/19 10:16 |
| S62 | 5490 | (agent\$1 or probe \$1 or module\$1) with ( migrat\$4 or mobile) with (manag\$5 or control \$4)                                                                                                                                                                                                                    | US-PGPUB; USPAT; EPO   | OR | ON | 2006/06/19 10:17 |

|     |     |                                                                                                                                           |                      |    |    |                  |
|-----|-----|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----|----|------------------|
| S63 | 47  | 709/223.ccls. and (agent\$1 or probe \$1 or module\$1) with ( migrat\$4 or mobile) with (manag\$5 or control \$4)                         | US-PGPUB; USPAT; EPO | OR | ON | 2006/06/19 10:17 |
| S64 | 2   | 709/223.ccls. and (agent\$1 or probe \$1 or module\$1) with ( migrat\$4 or mobile) with (manag\$5 or control \$4) with (fault or down\$2) | US-PGPUB; USPAT; EPO | OR | ON | 2006/06/19 17:28 |
| S65 | 12  | (heartbeat) with (protocol) with (status)                                                                                                 | US-PGPUB; USPAT; EPO | OR | ON | 2006/06/19 17:39 |
| S66 | 133 | (messaging) with (protocol) with (status)                                                                                                 | US-PGPUB; USPAT; EPO | OR | ON | 2006/06/19 17:40 |
| S67 | 42  | (messaging) with (protocol) with (status) with (node or device)                                                                           | US-PGPUB; USPAT; EPO | OR | ON | 2006/06/19 17:40 |
| S68 | 5   | (messaging) with (protocol) with (status) with (node or device) with (agent or module)                                                    | US-PGPUB; USPAT; EPO | OR | ON | 2006/06/19 17:41 |
| S69 | 20  | (messaging) near4 (protocol) with (status) with (node or device)                                                                          | US-PGPUB; USPAT; EPO | OR | ON | 2006/06/19 17:46 |
| S70 | 34  | (messaging) near4 (protocol) with (status or monitor \$3) with (node or device)                                                           | US-PGPUB; USPAT; EPO | OR | ON | 2006/06/19 18:07 |
| S71 | 231 | (ICMP or ping) with (status or monitor \$3) with (node or device)                                                                         | US-PGPUB; USPAT; EPO | OR | ON | 2006/06/19 18:09 |
| S72 | 11  | (ICMP or ping) with (status) with (node or device) with (probe or agent)                                                                  | US-PGPUB; USPAT; EPO | OR | ON | 2006/06/19 18:16 |
| S73 | 25  | (ICMP or ping) with (status) with (probe or agent)                                                                                        | US-PGPUB; USPAT; EPO | OR | ON | 2006/06/19 18:32 |

|     |     |                                                                                                            |                                                |    |    |                  |
|-----|-----|------------------------------------------------------------------------------------------------------------|------------------------------------------------|----|----|------------------|
| S74 | 303 | (ICMP or ping) with (status) and (probe or agent)                                                          | US-PGPUB; USPAT; EPO                           | OR | ON | 2006/06/19 18:32 |
| S75 | 55  | (ICMP or ping) with (status) same (probe or agent)                                                         | US-PGPUB; USPAT; EPO                           | OR | ON | 2006/06/19 18:33 |
| S76 | 6   | (ICMP or ping) with (status) with (network) with (device or node or entit\$3) same (probe or agent)        | US-PGPUB; USPAT; EPO                           | OR | ON | 2006/06/19 18:34 |
| S77 | 6   | (ICMP or ping or ARP) with (status) with (network) with (device or node or entit\$3) same (probe or agent) | US-PGPUB; USPAT; EPO                           | OR | ON | 2006/06/19 18:34 |
| S78 | 142 | (ICMP or ping or ARP) with (network) with (device or node or entit\$3) same (probe or agent)               | US-PGPUB; USPAT; EPO                           | OR | ON | 2006/06/19 18:35 |
| S79 | 5   | (ICMP or ping or ARP) with (network) with (device or node or entit\$3) same (probe or agent) with status   | US-PGPUB; USPAT; EPO                           | OR | ON | 2006/06/19 18:34 |
| S80 | 77  | (ICMP or ping or ARP) with (network) with (device or node or entit\$3) same (probe or agent) and status    | US-PGPUB; USPAT; EPO                           | OR | ON | 2006/06/19 18:35 |
| S81 | 148 | (heartbeat) near3 (protocol)                                                                               | US-PGPUB; USPAT; USOOCR; EPO; DERWENT; IBM_TDB | OR | ON | 2007/01/23 15:17 |
| S82 | 17  | (heartbeat) near3 (protocol) same (status)                                                                 | US-PGPUB; USPAT; USOOCR; EPO; DERWENT; IBM_TDB | OR | ON | 2007/01/23 15:17 |

|     |     |                                                                                                                |                                               |    |    |                  |
|-----|-----|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----|----|------------------|
| S83 | 19  | (agent) with (periodic\$3) with (status) with (node or server or client or entity)                             | US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB | OR | ON | 2007/01/26 18:05 |
| S84 | 49  | (agent) with (periodic\$3) with (monitor\$3 or status or track\$3) with (node or server or client or entity)   | US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB | OR | ON | 2007/01/26 18:07 |
| S85 | 4   | (agent) near4 (periodic\$3) near3 (monitor\$3 or status or track\$3) with (node or server or client or entity) | US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB | OR | ON | 2007/01/26 18:06 |
| S86 | 165 | (heartbeat) near3 (protocol)                                                                                   | US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB | OR | ON | 2007/07/15 09:24 |
| S87 | 20  | (heartbeat) near3 (protocol) same (status)                                                                     | US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB | OR | ON | 2007/07/15 09:26 |
| S88 | 75  | (heartbeat) adj (protocol)                                                                                     | US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB | OR | ON | 2007/07/15 09:26 |
| S89 | 56  | (heartbeat) adj (protocol) and status                                                                          | US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB | OR | ON | 2007/07/15 09:26 |
| S90 | 8   | (heartbeat) adj (protocol) same status                                                                         | US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB | OR | ON | 2007/07/15 09:26 |
| S91 | 24  | (heartbeat) near5 (protocol) same status same (agent or module)                                                | US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB | OR | ON | 2008/09/08 20:03 |

|     |     |                                                                                                              |                                                           |    |    |                     |
|-----|-----|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|----|----|---------------------|
| S92 | 36  | (heartbeat) near5<br>(protocol) same<br>status and (agent<br>or module)                                      | US_PGPUB;<br>USPAT; USOCR;<br>EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/08<br>20:08 |
| S93 | 175 | (heartbeat) near5<br>(protocol or<br>message) same<br>status same (agent<br>or module)                       | US_PGPUB;<br>USPAT; USOCR;<br>EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/08<br>20:08 |
| S94 | 153 | (heartbeat) near5<br>(message) same<br>status same (agent<br>or module)                                      | US_PGPUB;<br>USPAT; USOCR;<br>EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/08<br>20:08 |
| S95 | 36  | (heartbeat) near5<br>(message) same<br>status same (agent<br>or module) same<br>(node or device)             | US_PGPUB;<br>USPAT; USOCR;<br>EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/08<br>20:09 |
| S96 | 54  | (heartbeat or alive)<br>near5 (message)<br>same status same<br>(agent or module)<br>same (node or<br>device) | US_PGPUB;<br>USPAT; USOCR;<br>EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/09<br>11:14 |

7/27/2009 6:29:38 PM

C:\Documents and Settings\abilgrami\My Documents\EAST\Workspaces\09895235.wsp